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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/531,905	04/18/2005	Veronique Hall-Goulle	4-22774/A/PCT	3921	
³²⁴ JoAnn Villamiz	7590 03/18/200 car	8	EXAMINER		
Ciba Corporation/Patent Department			KHAN, AMINA S		
540 White Plains Road P.O. Box 2005		ART UNIT	PAPER NUMBER		
Tarrytown, NY 10591			1796		
			MAIL DATE	DELIVERY MODE	
			03/18/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/531,905	HALL-GOULLE ET AL.				
Office Action Summary	Examiner	Art Unit				
	AMINA KHAN	1796				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 66(a). In no event, however, may a reply be timing apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>06 De</u>	ecember 2007.					
	action is non-final.					
·	,—					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1 and 4-20 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 and 4-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	te				
Notice of Information Disclosure Statement(s) (PTO/SB/08) 5) ☐ Notice of Informal Patent Application Paper No(s)/Mail Date 10/2/06 07/18/05. 6) ☐ Other:						

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DETAILED ACTION

1. This office action is in response to applicant's amendments filed on December 6,

2007.

2. Claims 1 and 4-20 are pending. Claims 2 and 3 have been cancelled. Claims

14,5,7-10 and 16 have been amended. The restriction/election requirement is withdrawn

in view of applicant's amendments.

Specification

3. The abstract of the disclosure does not commence on a separate sheet in accordance with 37 CFR 1.52(b)(4). A new abstract of the disclosure is required and must be presented on a separate sheet, apart from any other text.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1,4-15,17,19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lent et al. (US 5,837,042) in view of Goulle (WO 96/20942).

Lent et al. teach ink jet printing security markings such as bar codes on objects such as paper substrates (column 14, lines 15-65; column 15, lines 5-15) with compositions comprising 0.1-2% colorants and 80-97% ink carriers (column 6, lines 64-67; column 8, lines 25-35; column 4, lines 40-55) wherein the colorant is a lanthanide chelate combined other fluorescent pigments and dyes (column 7, lines 5-40) and wherein the carrier is water and/or alcohols such as methanol, ethanol, propanol and butanol (column 6, lines 50-60).

Lent et al. do not teach the instantly claimed compounds of formula (II).

Goulle, in the analogous art of security printing bank notes and securities with pigments and dyes, teaches the advantages of using highly luminescent compounds of formula (I) wherein M is Eu, Tb, Dy or Sm, R2 is hydrogen or C1-C6 alkyl, R1 and R3 are phenyl, hydrogen or C1-C6 alkyl (page 1 and 2) and L is defined in Table 1, page 6.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the printing methods of Lent et al. by incorporating into the printing compositions the lanthanide chelates taught by Goulle because Goulle teaches the advantages of using these highly luminescent compounds in security printing of documents and Lent invites the inclusion of lanthanide chelate into the printing compositions. It is prima facie obvious to combine the two references, each taught for the same purpose, to yield a third composition for that very purpose. *In re Kerkhoven*, 205 USPQ 1069, *In re Pinten*, 173 USPQ 801, and *In re Susi*, 169 USPQ 423 when ingredients are well known and combined for their known properties, the combination is obvious absent unexpected results.

6. Claims 1,4-13 and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jalon (US 4,891,505) in view of Goulle (WO 96/20942).

Jalon teaches printing or dyeing fibers with energy transfer chelates or extruding fibers comprising energy transfer chelates to provide materials for security documents such as bank notes, checks, credit cards, etc. (column 1, lines 25-35; column 6, lines 1-10; column 3, lines 5-30). Jalon further teaches the fibers may be polyamides (see examples).

Jalon et al. do not teach the instantly claimed compounds of formula (II), the percentage of these compounds, or the solvents.

Goulle, in the analogous art of security printing bank notes and securities with pigments and dyes, teaches the advantages of using highly luminescent compounds of formula (I) wherein M is Eu, Tb, Dy or Sm, R2 is hydrogen or C1-C6 alkyl, R1 and R3 are phenyl, hydrogen or C1-C6 alkyl (page 1 and 2) and L is defined in Table 1, page 6. Goulle further teaches solvents of acetonitrile and alcohols (page 3).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the extruding methods of Jalon by incorporating into the extruding compositions the lanthanide chelates and solvents taught by Goulle because Goulle teaches the advantages of using these highly luminescent compositions in security printing of documents and Lent teaches the equivalence of printing, dyeing or extruding fibers with lanthanide chelates. It is prima facie obvious to combine the two references, each taught for the same purpose, to yield a third composition for that very

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purpose. *In re Kerkhoven*, 205 USPQ 1069, *In re Pinten*, 173 USPQ 801, and *In re Susi*, 169 USPQ 423 when ingredients are well known and combined for their known properties, the combination is obvious absent unexpected results.

Regarding the claimed percentage of these compounds to be present in the extruding composition, optimization of this parameter would only require routine skill in the art for the benefit of maximal security of the documents produced,

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to AMINA KHAN whose telephone number is (571)272-5573. The examiner can normally be reached on Monday through Friday, 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lorna M Douyon/ Primary Examiner, Art Unit 1796

/Amina Khan/ Examiner, Art Unit 1796 March 9, 2008